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# MEDICAL LIBRARY DESIGN AND PLANNING



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Lausanne, Switzerland

Wednesday, 20th June 2019

EAHIL 2019

Learn | Share | Act | Bridge Borders



# SESSION OUTLINE

- Presentation (25 min)
  - Context
  - Future site
  - Planning and programming
  - Needs assessment
  - Surveys, standards, professional publications
  - Selected guiding principles
- Group activity (20 min)
- Feedback (20 min)
- Take home message (10 min)

# CONTEXT : AN EXPANDING CAMPUS

- A university hospital : 1'400 beds, 9'000 FTE
- Research facilities
- Faculty of medicine administration
- 1'100 medical students : 2<sup>nd</sup> years ->
- Educational facilities : lecture halls, library, lab rooms



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2017 : new lecture halls



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2018 : cancer research center



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2022 : children's hospital



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# MOVING FROM A GROUND FLOOR TO THE CLIFFS !



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# FUTURE SITE

## Easy accessibility

- Proximity with main public transport
- Closer to the faculty's auditoriums
- 7/7, 14/24 – opening hours extension under discussion

## Central location

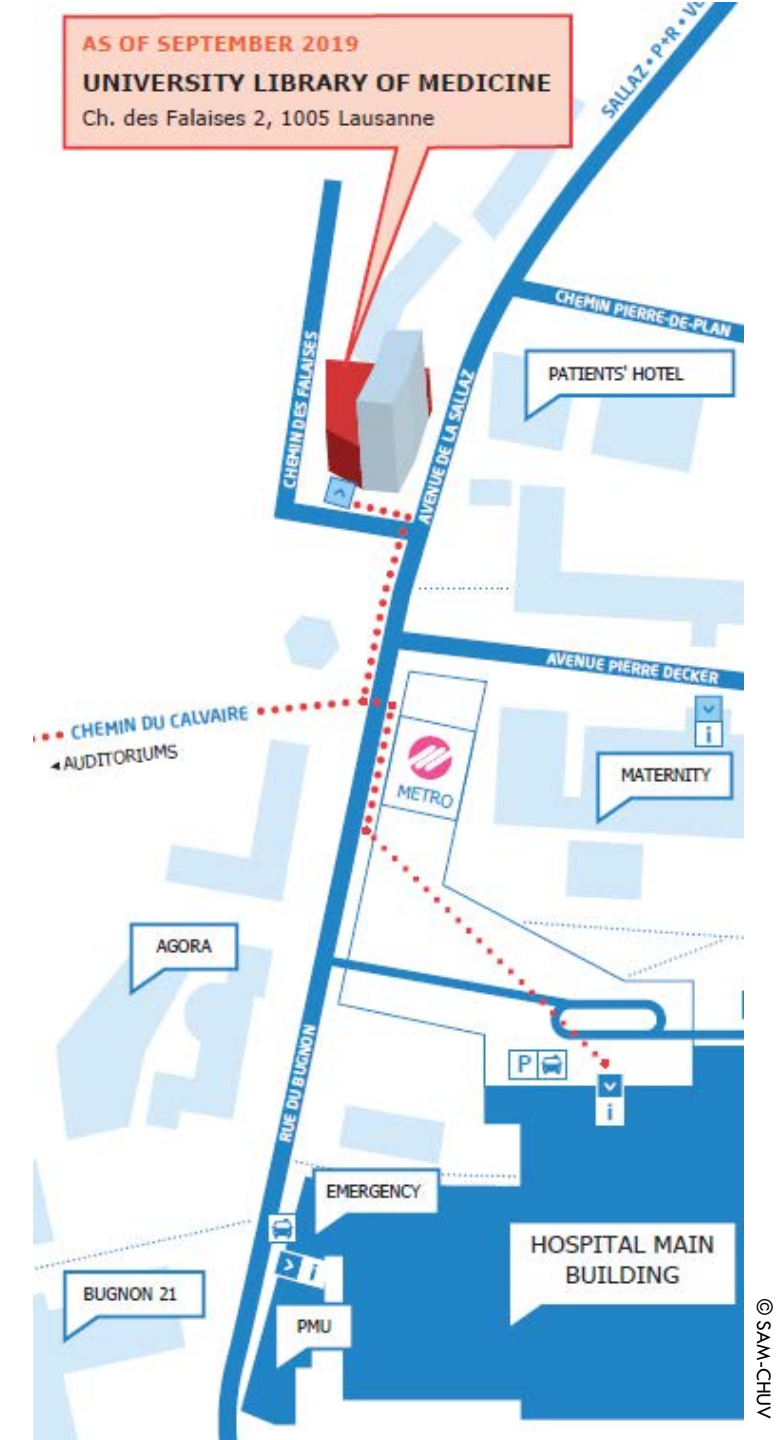
- Opposite the university hospital and future infrastructures
- Remains well embedded in hospital complex

## Integrated activities and open spaces

- Shared facilities : library, practical lab rooms, student organisation office
- Library staff's workspace : open space

## A future landmark ?

- Good visibility of the library entrance with neon signs
- New building overlooking the lake and mountains : an inspirational place !



# VIEW FROM THE NEW LIBRARY TOP FLOOR



© Alexia Trombert

# PLANNING AND PROGRAMMING

## Analyse

- 2000m<sup>2</sup> on 3 floors, 3 large open spaces
- Few inner walls and windows but light wells

## Implement

- Team management : architects, ingeneers, designers, planners, stakeholders
- Time management for different stages : construction, tenders, delivery

## Assess

- Quantify and measure : user areas, collections, activities, services, staff
- Anticipate changes

## Check

- Library standards, guidelines, toolkits : ISO, [ALA Libguides](#), [OCLC Webjunction](#)
- National and/or local rules for Security, Disability Access, Office ergonomics

## Engage

- Patron input, user behaviors observation, expectations survey
- Literature review, visits and benchmarking

Quantitative needs	Present Surface m2	Capacity (seats)	% total surface	Requested m2	Granted m2	Capacity (seats)	% total surface
Study places, incl. study carrels	480	162	42 %	800	900	258	62 %
Group study rooms	120	46	10 %	160	44	14	3 %
Training room	41	18	3.5 %	42	33	16	2.2 %
Printing facilities	17		1.5 %	18	30		2 %
Computer room / area	20	13	1.7 %	20	10	4	0.6 %
Library service main desk	24	2	2 %	15	20	2	1.1 %
Library service secondary desk(s)	-	-	-	10	10	1	0.6%
Book open stacks	60	330 lm	5.5 %	50	50	223 lm	3 %
Compact shelving	75	900 lm	6 %	60	55	600 lm	3 %
Periodicals display (latest issues)	10	20 lm	0.8%	10	10	20 lm	0.6 %
Multimedia collection	20	4	1.7 %	20	10	4	0.6 %
Informal zones	-	-	-		100	40	6 %
Refreshment area	<i>Main cafeteria</i>		<i>outside</i>	<i>outside</i>	25	4	1.5 %
Circulation areas : corridors, steps	128	12	11 %	100	54		4 %
Staff workspace and lounge	135	14	11 %	135	119	12	8%
<b>Total</b>	<b>1'130</b>	<b>271</b>		<b>1'440</b>	<b>1'470</b>	<b>355</b>	



# ISO STANDARDS

## INFORMATION AND DOCUMENTATION - QUALITATIVE CONDITIONS AND BASIC STATISTICS FOR LIBRARY BUILDING — SPACE, FUNCTION AND DESIGN (2012)

### Space for user places

- Standard-type desk should be minimum 120 cm in breadth and 80 cm in depth
- Axis centre distance between tables is 175 cm

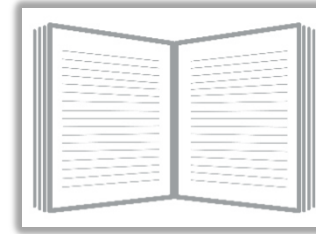
### Shelf depth

- Books (standard size) : 25-30 cm
- Periodicals (unbound iss., latest iss. on slanting shelves, other lying behind) : 30-45cm
- CD, CD-ROM, DVD (standing) : 20-25 cm

### Shelf length and aisle width

- Basic unit : 0.90 – 1m
- Length of shelving ranges in open access area : 3-7m
- Closed stacks, compact storage : 5-8m
- Shelf frame height: max 2.25m
- Stack aisle width : 1,20 to 1,50m

# STUDENT FEEDBACK & EYE OBSERVATIONS

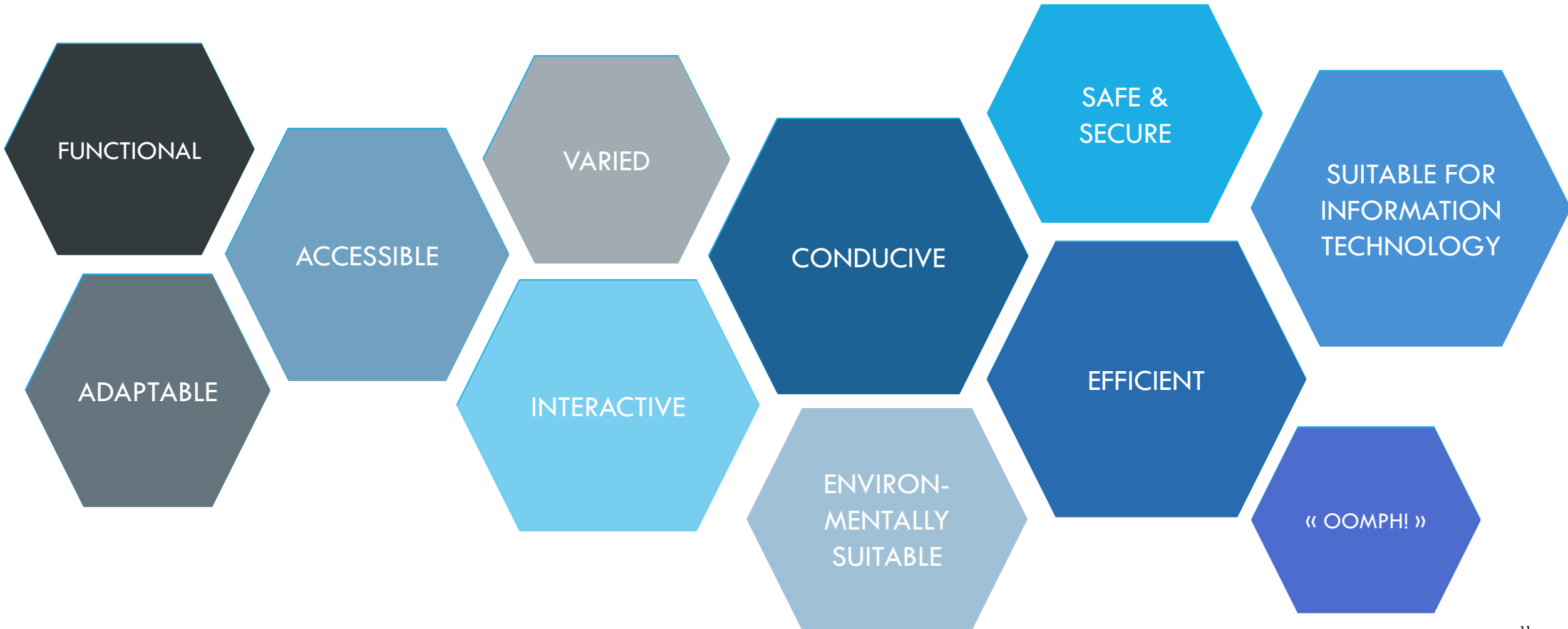


<p><b>Table size</b> <b>Table orientation</b></p>	<p><b>Group work for final exams preparation</b></p>	<p><b>No need for informal areas and seats</b></p>	<p><b>Library collections underused</b></p>	<p><b>Use personal mobile devices and notebooks</b></p>
<p><b>Acoustics</b> <b>Lighting</b></p>	<p><b>Mainly skills practice for physical examination</b></p>	<p><b>No time to relax !</b></p>	<p><b>E-journals not required</b> <b>E-books invisible</b></p>	<p><b>Need electrical outlets and good WIFI</b></p>
<p><b>Feeling of privacy in a public space</b></p>	<p><b>Medical studies: an individual learning process ?</b></p>	<p><b>Need coffee !</b></p>	<p><b>Mainly handouts and notes on the tables</b></p>	<p><b>Printing machines</b></p>

# THEORETICAL PRINCIPLES

ANDREW MACDONALD, « THE TEN COMMANDMENTS REVISITED : THE QUALITIES OF GOOD LIBRARY SPACE », 2006.

[HTTPS://WWW.LIBERQUARTERLY.EU/ARTICLES/10.18352/LQ.7840/](https://www.liberquarterly.eu/articles/10.18352/lq.7840/)



# SELECTED GUIDING PRINCIPLES

## Flexibility

- Standardised individual study tables (80x100cm) set in rows
- Chairs with casters
- Clip-on side panels (140cm) for modular study carrels
- Adjustable tables
- Informal areas, high tables, bar stools, soft seating but no bean bags or sofas

## Connectivity

- Integration : electrical outlets on each table, but very few fixed desktop computers
- Mobile App for room booking system
- Smart cards for access to specific areas and at peak times
- AV monitors, and... whiteboards, paperboards
- Cloud based printing system and scanning facilities
- RFID : book security system and occupancy rates monitoring

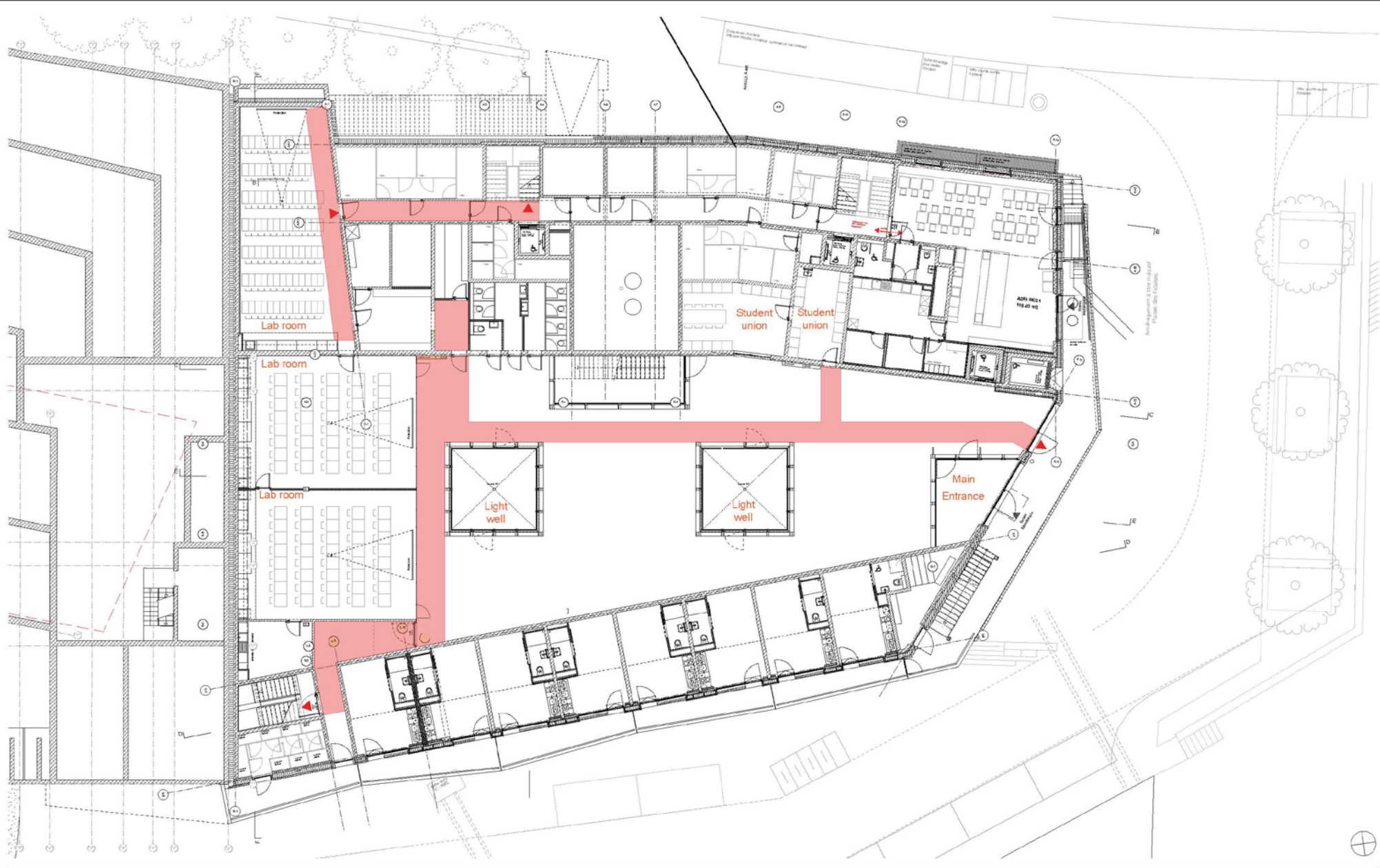
## Attractivity

- Decoration simplicity, soft colours, natural elements
- Coffee corner, water fountains
- More work spaces, reduced storage space
- Focus on training activities : literature search skills and lab rooms

# GROUP STUDY ROOMS



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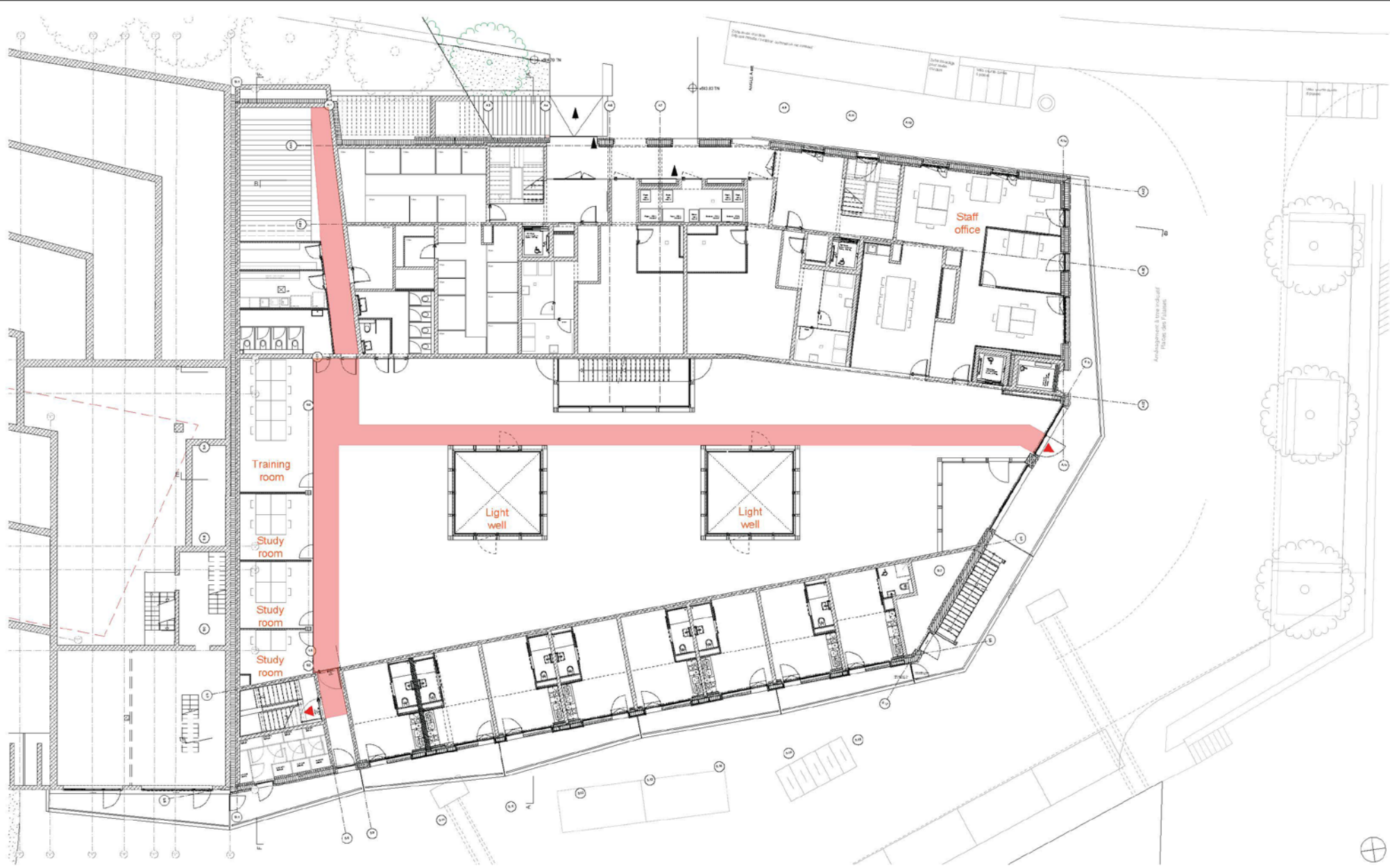
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**PROJET DES FALAISES - ACTIVITÉS**

PHASE **PROJET**  
 PLAN **BÂTIMENT A/SOCLE (N°1-3/2-4)**  
 TYPE **PLAN REZ INFÉRIEUR - VOIES DE FUITE**  
 N° DU FICHER **FAL-MPH-PRO-A-PLN-ACT**    INDICE **A**

**AV. DE LA SALLAZ 1-3 - 1005 LAUSANNE**  
**CH. DES FALAISES 2-4 - 1005 LAUSANNE**  
 STATUT DU PLAN **Provisoire**  
 N° DU PLAN **FAL-MPH-PRO-A-PLA-RI26**  
 DATE **19.04.2018**    FORMAT **A3**    ECH **1:200**



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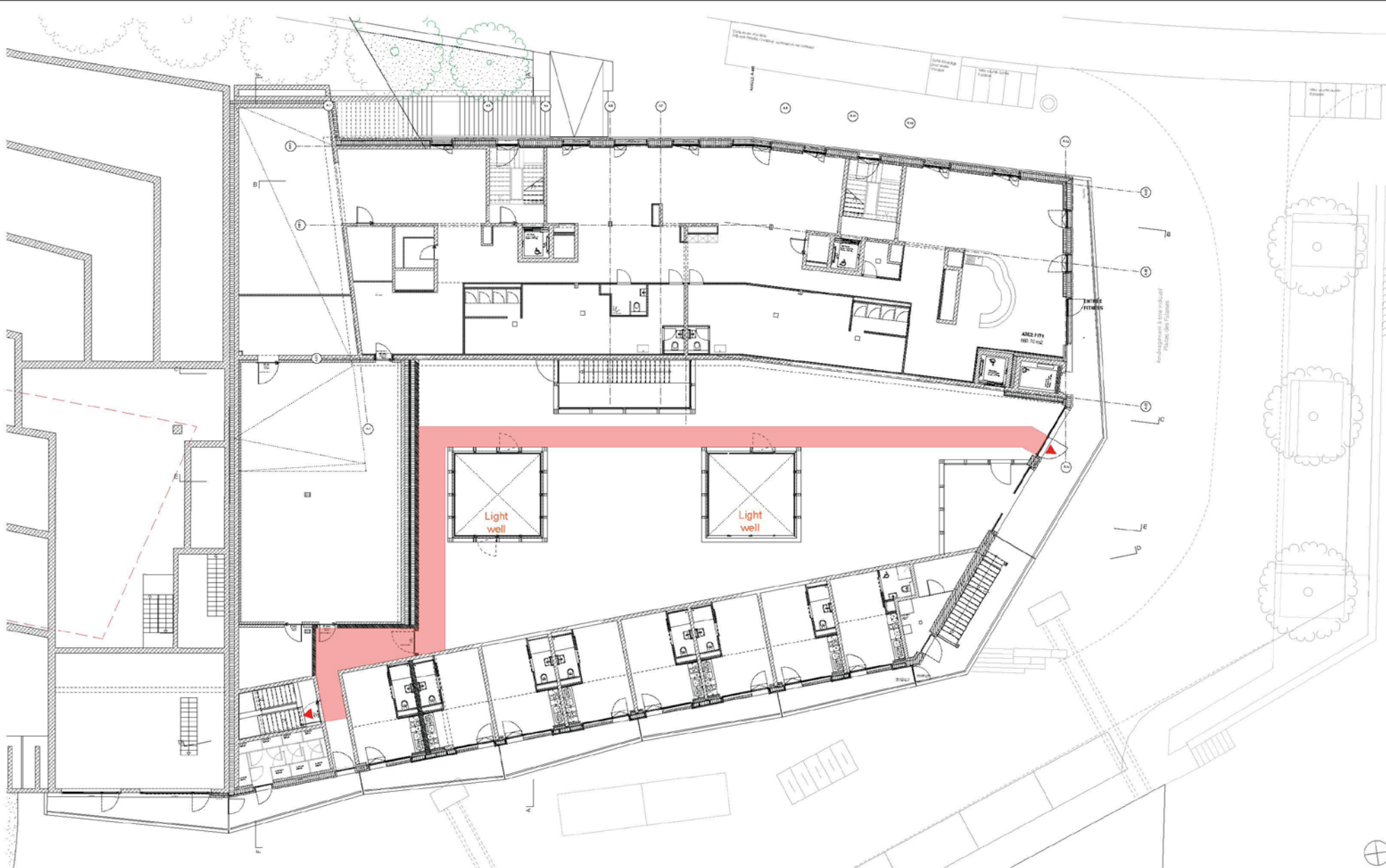
PHASE **PROJET**  
 PLAN **BÂTIMENT A/SOCLE (N°1-3/2-4)**  
 TYPE **ENTRESOL 1 - VOIES DE FUITE**  
 N° DU FICHIER **FAL-MPH-PRO-A-PLN-ACT**    INDICE **A**

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STATUT DU PLAN **Provisoire**

N° DU PLAN **FAL-MPH-PRO-A-PLA-RI26**

DATE **19.04.2018**    FORMAT **A3**    ECH. **1:200**



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**PROJET DES FALAISES - ACTIVITÉS**  
 PHASE **PROJET**  
 PLAN **BÂTIMENT A/SOCLE (N°1-3/2-4)**  
 TYPE **PLAN ENTRESOL 2 - VOIES DE FUITE**  
 N° DU FICHER **FAL-MPH-PRO-A-PLN-ACT**    INDICE **A**

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 N° DU PLAN **FAL-MPH-PRO-A-PLA-RI26**  
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# GROUP ACTIVITY

## 1 – Assign one or more floors to each zone

- Can you think of any additional zone ? On which floor(s) would you set it ?
- Approx. 10'

## 2 – Choose a floor plan and draw the previously assigned zones according to the color code

- Discuss about the main specificities of your floor (noise level, types of furniture, atmosphere)
- Optional : select some furniture items from the provided pieces and add them to your plan
- Approx. 10'

## 3 – Group presentation

- Approx. 20'

# ZONES

Library service main desk  
▪ Library service secondary desk(s)

Study places  
▪ Study carrels

Printing facilities

Computer area

Book collection (open stacks)

Periodicals display (latest issues)

Multimedia collection

Refreshment area

Informal area (soft seating)

Periodical closed stacks

Group study rooms

Training room

Lab rooms

Lab lockers and changing rooms

Student organisation

Restrooms

Staff office

Scale : 1/70



# TAKE HOME MESSAGE

Find the right balance while dealing with technical, economical and architectural constraints

- Call for tenders VS final choices
- Architect's perspective VS stakeholders' perspective
- Flexibility VS organisational limitations

**FROM DESIGN TO SPACE OCCUPATION...**  
**... TO POST-OCCUPANCY ASSESSMENT**

# THANK YOU FOR YOUR PARTICIPATION !

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[www.bium.ch/en/new-library-2019](http://www.bium.ch/en/new-library-2019)